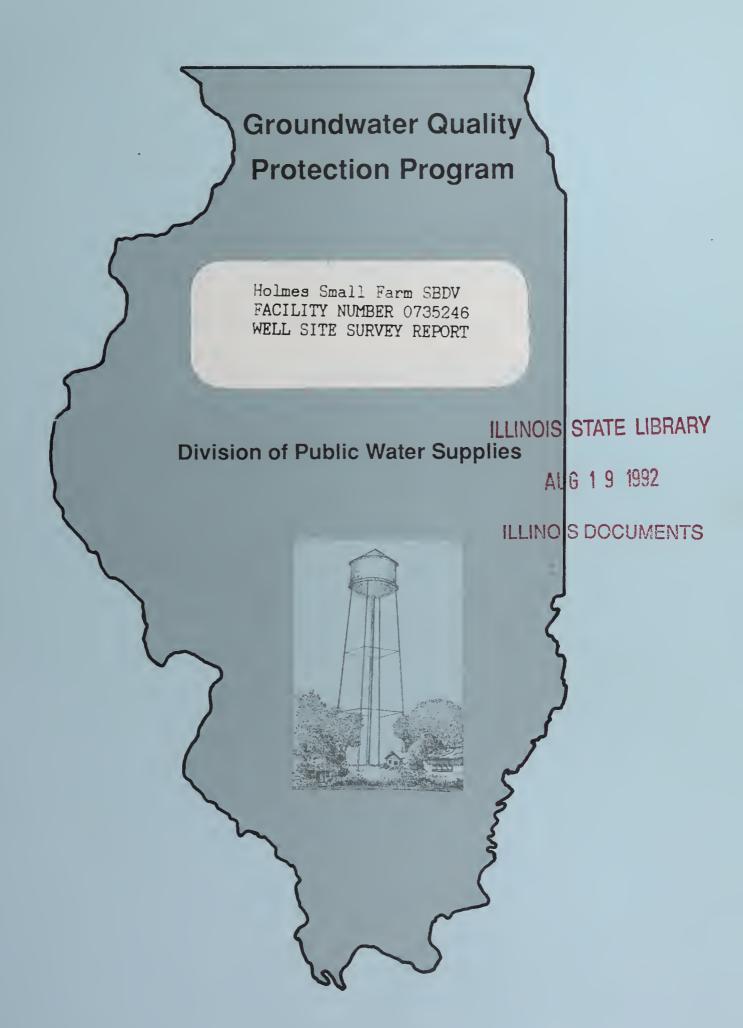
Division of Public Water Supplies 2200 Churchill Road Springfield, Illinois 62706

26917603





GROUNDWATER QUALITY PROTECTION PROGRAM:

Holmes Small Farm SBDV FACILITY NUMBER 0735246 WELL SITE SURVEY REPORT

Presented by:

Division of Public Water Supplies

Published by:

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INTRODUCTION

This report has been prepared by the Illinois Environmental Protection Agency (Agency) pursuant to Section 17.1 of the Illinois Environmental Protection Act (Act). The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to the groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GROLOGIC PROFILE OF WELL SITES

The Holmes Small Farm SBDV has one public water supply well. The Agency has no production figures for the well that serves an estimated population of 32. See Table I for a description of the well. The well utilizes a shallow bedrock aquifer which is overlain by relatively impermeable bedrock and till. Permeability is the measure of the ability of a soil or sediment to transmit fluids. A description and geologic profile is found in the Facility wells Report (Appendix C).

TABLE 1

		Maximum Setback (Ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/ft)	Treatment	Aquifer	Depth	Well Logs Available
Well #1 (11033)	200	No	A	30 .043	N/A	none	Shallow Bedrock	255	yes

A=Active; I=Inactive

GROUNDWATER SAMPLING MONITORING HISTORY

The public water supply well at Holmes Small Farm SBDV were sampled as part of the Statewide Groundwater Monitoring Network on February 18, 1987. The samples were analyzed for volatile aromatic and organic chemicals (VOC/VOA) and inorganic chemicals (IOC). The VOC/VOA analyses performed detected no quantifiable levels of organic chemicals the well. The IOC analyses performed found the water to meet all general use guidelines. See Appendix D for detailed results.

SURVEY MICTHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes and possible problem sites to your water supply well(s). The location of potential sources, routes, possible problem sites, water supply wells, minimum setback zones, and 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second nd following pages of the survey inventory units within and bordering a 1,500 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized for agricultural production). The Agency five-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential

contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

Survey Results and Findings:

The well site survey of Holmes Small Farm SBDV was conducted on July 8, 1991 by Gregory White, Environmental Protection Specialist from the Agency's Rockford Regional Office. The following describes the results and findings for Holmes Small Farm SBDV.

Holmes Small Farm SBDV Well #1 (11033). The survey area is rural consisting partly of moderate density residential housing, partly of woodlands, and partly of open space. There are no visible potential sources, routes, or possible problem sites located within the minimum setback zone, or in the survey area. The homes are served by private septic systems.

SUMMARY

The well site survey conducted found no potential sources, routes, or possible problem sites within the survey area (200 ft.), or in the survey area (1500 ft.). Sampling and monitoring to date has detected no contamination in the groundwater utilized by the facility.

The Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the Agency. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the control would then be assumed by the local officials through adoption of a maximum setback zone ordinance.

Since Well No. 3 is the sole source of water for Holmes Small Farm SBDV, the protection provided by a maximum setback zone should be considered a necessary for the community's well being.

Henry County officials should be contacted in order to make application for a maximum setback zone.

RECOMMENDATIONS

The Agency strongly urges Holmes Small Farm SBDV to consider establishing a maximum setback zone ordinance for its wells. Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination up to 1000 feet from respective wellheads. Regulatory coverage of certain existing activities could be expanded upon adoption of proposed regulations currently before the Illinois Pollution Control Board. To aid you in the development of further regulatory coverage for your well supply, the Agency prepared a "Maximum Setback Zone Workbook" that provides detailed case studies of how to establish maximum setback zones. This text and further technical assistance is readily available form the Agency and the Illinois State Water Survey.

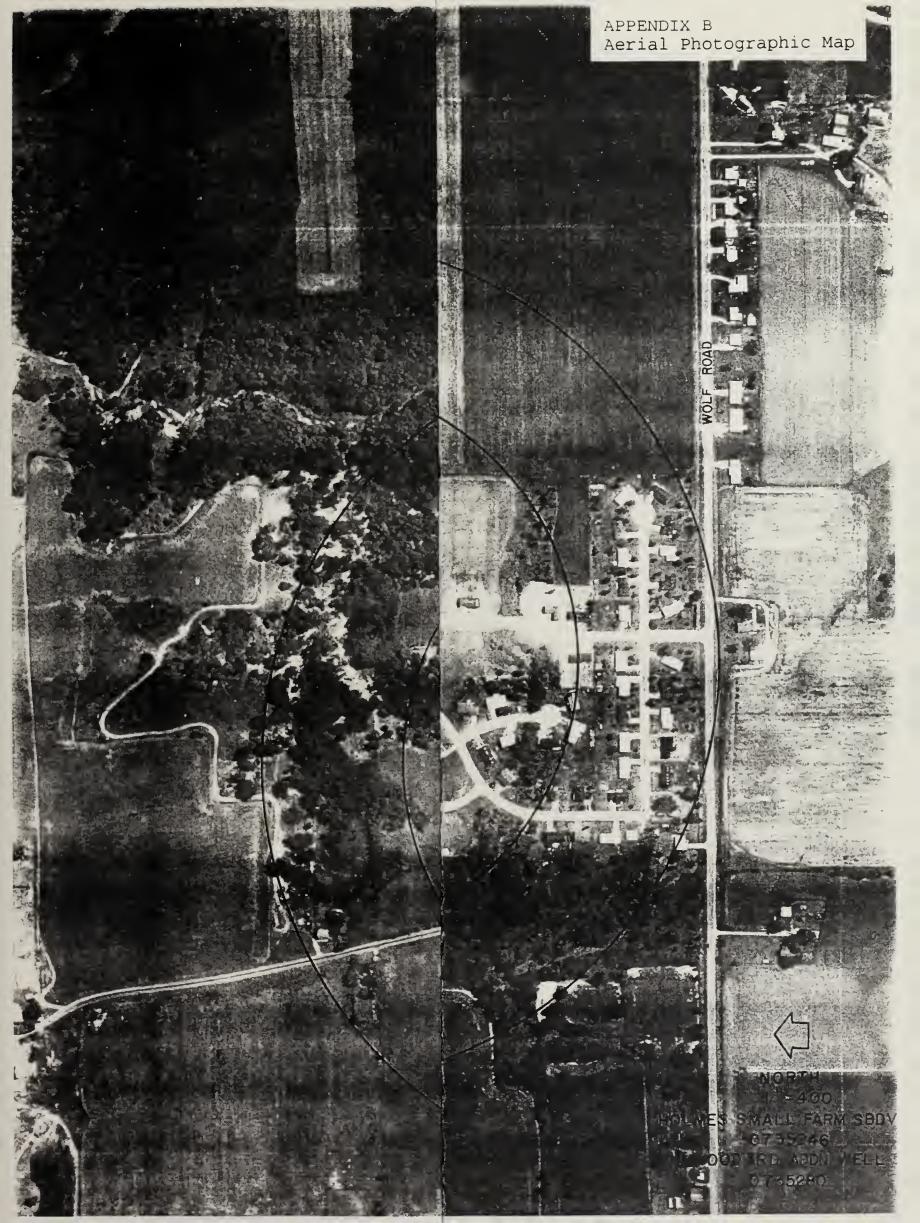
Local governments are also encouraged to consider conducting groundwater protection needs assessments. Any county or municipality having a population less than 25,000 or 5,000 persons respectively, may request the Agency to conduct a hazard review in lieu of a need's assessment. The Agency may issue an "advisory of groundwater contamination hazard" if a significant hazard to the public health or the environment exists.

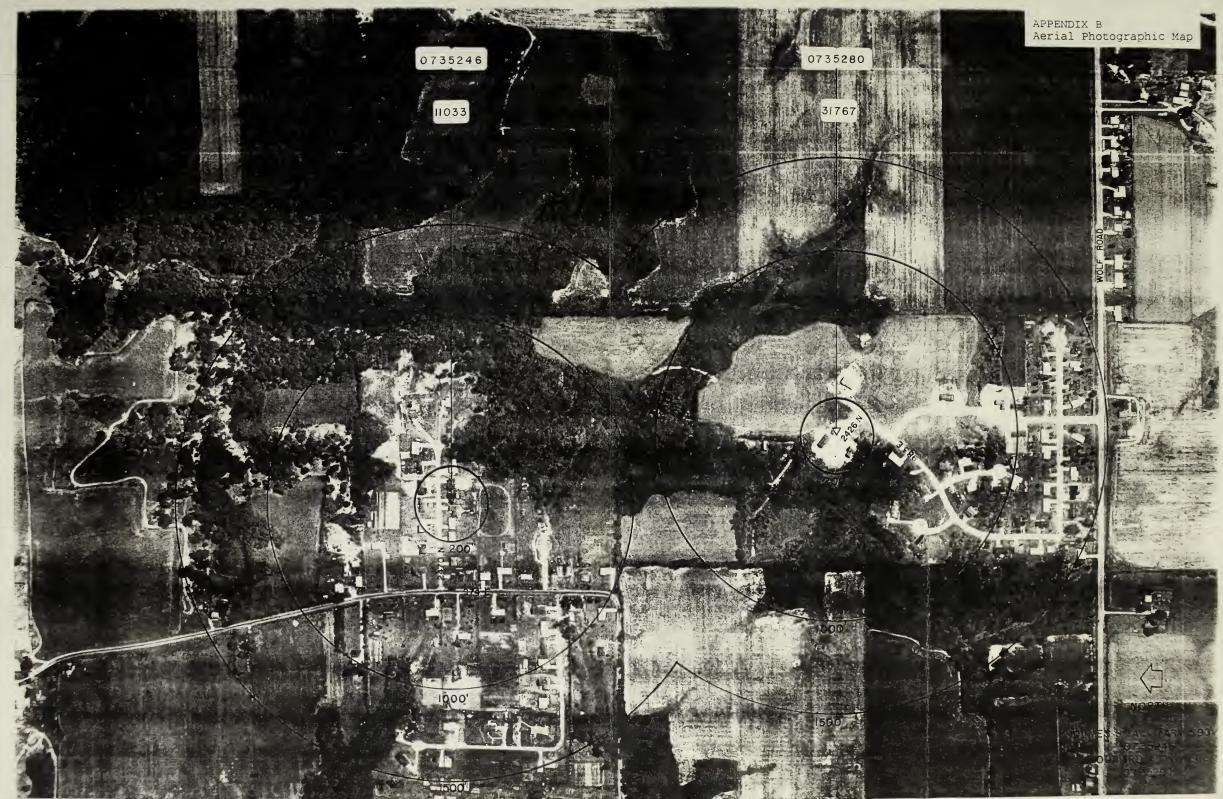












APPENDIX B1— Holmes Small Farm SBDV WKLL #1 (#11033) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR:

WHITE

SURVEY DATE:

7-8-91

ADDRESS:

Holmes Small Farm SBDV

Michael Glascock RR 1 Box 304A Colona, Il 61241

AGENCY WELL NO .:

11033

WELL NAME & DESCRIPTION:

Well #1 -

TAP:

01

FACILITY NO. & NAME: FACILITY PHONE CONTACT:

0735246 Holmes Small Farm SBDV

309/441-5560

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

18N, 02E, 34,1E

DISTANCE FROM CORNER SECTION:

2510N, 1060W

QUAD SHEET CODE & NAME:

045C, Hillsdale Quad

MINIMUM SETBACK:

200 ft.

MAXIMUM SETBACK:

GEOLOGIC SUSCEPTIBILITY RATING:

F- relatively impermeable bedrock within 20 ft. of surface, mostly overlain by till or

other fine-grained material.

AGE OF WELL:

1972

WELL DEPTH:

255 ft.

DEPTH OF CASING:

N/A

AQUIFER CODE:

5050, shallow Bedrock

MULTIPLE AQUIFER (Y, N):

no

SUMMARY DESCRIPTION OF 1,000 FT. RADIUS AREA:

Survey area is rural consisting partly of moderate density residential housing, partly of woodlands, and partly of open space

INTERVIEW(S):

NAME-AFFILIATION-ADDRESS-TELEPHONE NO.

APPENDIX B1—Holmes Small Farm SBDV WKLL #1 (#11033) INVENTORY AND SYNOPSIS OF UNIT(S)

CLASSIFICATION KEY

MINIMUM ZONE	OUTSIDE MINIMUM ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

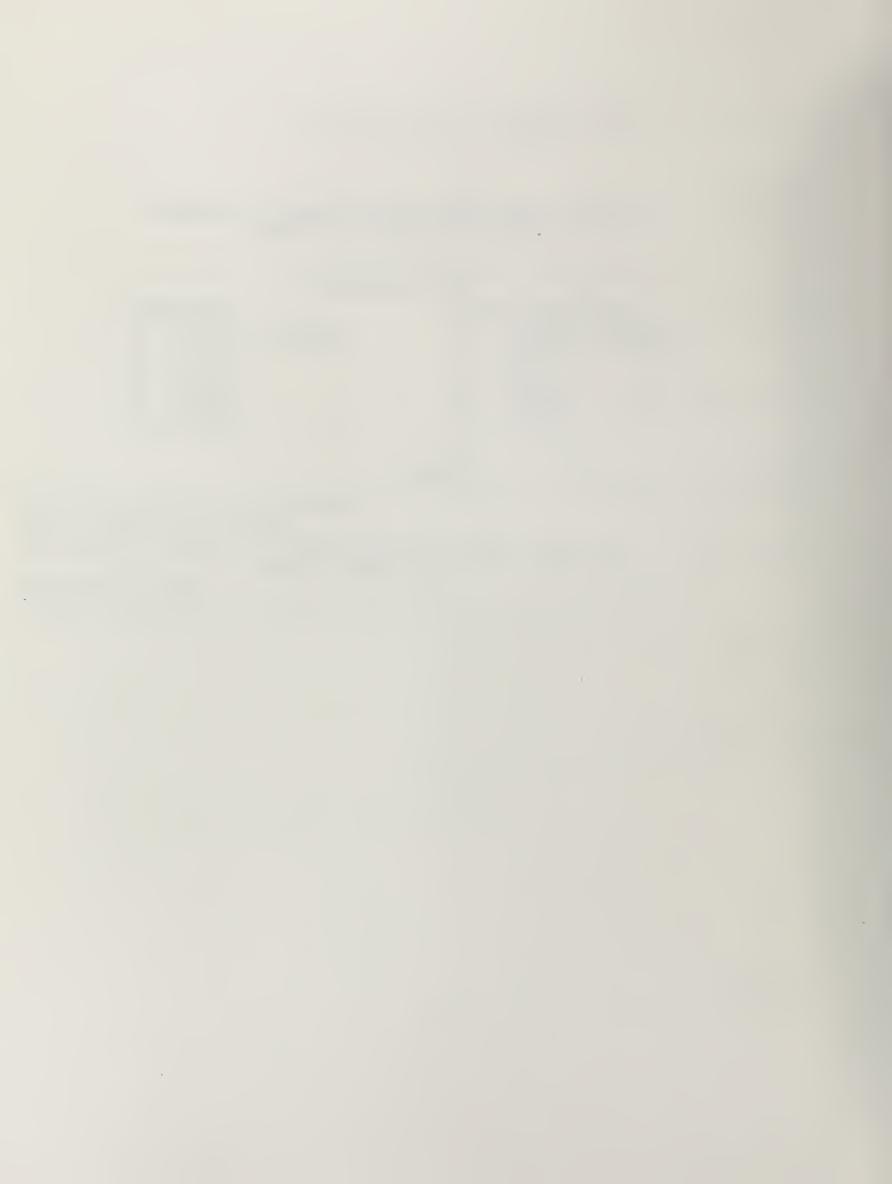
WELL NO. - MAP CODE - CLASSIFICATION:

NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION & COMMENTS: NO VISIBLE POTENTIAL SOURCES, ROUTES, OR

POSSIBLE PROBLEM SITES

PRE OR POST (Y orN): DISTANCE & DIRECTION: APPENDIX C



REPORT: PWGWP053	ILLINDIS ENVIRONMENTAL PROTECTION AGENCY OIVISION OF PUBLIC WATER SUPPLIES FACILITY WELLS REPORT	SENCY ES PAGE: 6 DATE: 02/05/92
The state of the s		
FACILITY: 0735246 HOLMES SMALL FARM SBOV	380V	
OWNER		OFFICIAL CUSTODIAN
G HICHAEL GLASCOCK		
2 RR FL - BUX 334A		
COLUMA IL 61241		
91		
WELL: 11033 WELL BETWEEN LOTS 6 & 7	STATUS: ACTIVE LUNGITUDE: W090 14 41.0	TWP: 18N RNG: 025 SEC: 34 PLOT: 1E
SUSCEPTIBILITY - LAND BURIAL: F	SUSCEPTIBILITY - LAND SPREADING:	HINIHUM SETBACK(FT): 0200
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9		
16		
.77		
f:		
SUSCEPTIBILITY CODES RELATIVELY IMPERIAL RELATIVELY IMPERIAL	= RELATIVELY IMPERMEABLE BEDROCK WITHIN 20 FT OF SURF GRAINED MATERIALS.	SURFACE, MOSTLY OVERLAIN BY TILL OR OTHER FINE-



APPENDIX D



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PWGWP048

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FUND CODE: PUSO 02/05/92 RECEIVED BY: HAD LAB SUPERVISOR: RPF TRIGGER DELIVERED BY: UPS LEVE RECEIVED BY: DELIVERED BY: LAB SUPERVISOR PAGE: DATE: -----STANDARDS-----RAW WTR TYPE WATER: G LAB COMPL: 11/27/89 COLL DATE: 99/28/89 LAB RCVD: 09/29/89 LAB CDMPL: 33/00/30 COLL DATE: 02/18/87 LAB RCVD: 00/00/00 #000-C001 4.000 50.000 SMPL PERIOD: 09/89 150.000 10.000 2.000 50.000 DRINK WTR 50.000 50.000 1000-000 5900.030 5000-000 COMM: Y RESULT 1.000 004-3.000 400-009 412.000 379.000 3.100 40 - 000 353.300 55.303 14.300 5.003 273.300 7.900 720.300 0-390 P UBLIC: **6/L 6/L** UG/L **UG/**1: UGAL **100 1/9** 7 16/1 **HG/L 1790** 1/90 **UG/L** 3 1/90 79 79 100 N 1790 101 BY ICP BY ICP 9Y ICP ICP 2 ICP STATUS: STATUS LOCATION: HOLMES SMALL FARM SBOV WELL AS AS SMPL COLLECTOR STRONTIUM, TOTAL RECOVERABLE UGZ RECOVERABLE UG/ EAD, TOTAL RECOVERABLE UG/L AS DPPER TOTAL RECOVERABLE UGZL RECOVERABLE UGA SOJIUM, TOTAL RECOVERABLE MG/ HARONESS, EDTA MG/L 15 CACOS POTASSIUM, TOTAL RECOVERABLE ECOVERABLE U RECOVERABLE MERCURY, TOTAL UGZL AS HG M GLASCOCK COLLECTOR: IEPA COMMENTS: LOCATION: WELL 3735246 HOLMES SMALL FARM SBDV 11033 WELL BETWEEN LOTS 6 & RSLT ----STORET-----COLLECTOR: COMMENTS: DBSRV ATNS HARONESS. WELL NONE PURP: 5-SPEC/OTHR SMPL PURP: 1-ROUTINE SMPL PROG: C-CHEMICAL SAMPLE NO: 891414400 91600 092 0107 SAMPLE NO: 2002858 105 PWGWM026 ANALYSIS 03T 500 FACILITY: SMPL SHPL RAW SACE: HOOUL E:

ILLINGIS ENVINGNMENTAL PROTECTION SCENCE	DIVISION OF PUBLIC WATER SUPPLIES	SELECTED SAMPLE EXPANDED REPORT

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100 0.0	1 JCB JUG37 POTASSI	TOTAL RECOVERABLE MG/L AS K ANAL	96.	
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TYPE: RAW COLLECTOR: TEPA SMPL COLLECTOR LAB COMPL: 3075070 LAB SUPERVIS PROG: V-VOC OBSRVATNS: FUND CO	HJ: 2332857 LOCAT	N: WELL	OLL DATE: 027	DELIVERED
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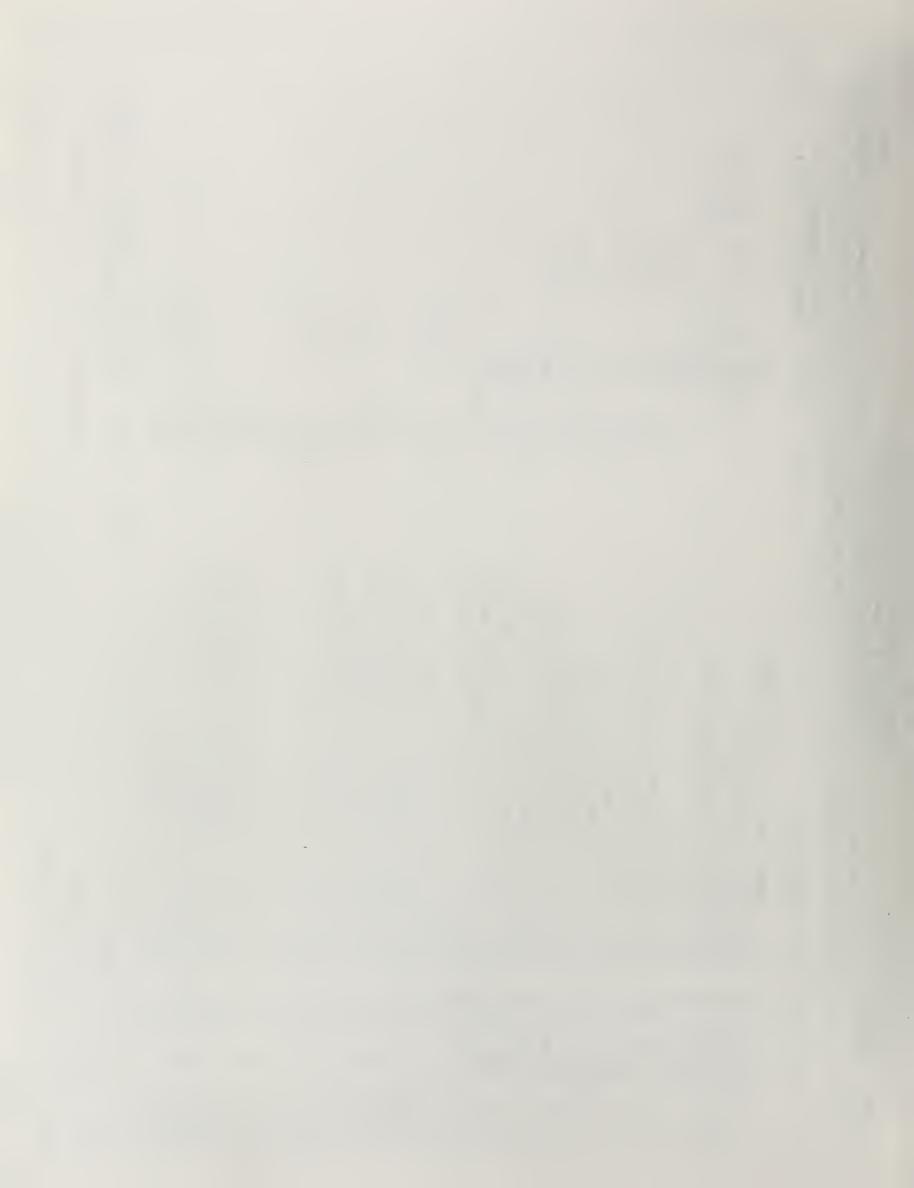
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MODULE:

31 02/05/92

PAGE: DATE:

TRIGGER TEVEL -----STANDARDS-----RAW WTR DRINK WIR 5.000 5-300 100-001 5.000 33.300 1000-000 13.200 7.000 000 - 1 5.000 434-000 RESULT 000-1 UNITS *** CONTINUED ** FLCW (PUMPING) TIME PRIOR TO SAMPLING MIN TRANS-1,2-DICHLORDETHYLENE UGZL GCZMS DIBROHDCHLOROHETHANE UGZL GCZMS CHEOROFORM UGZL GCZMS 1.1.1-TRICHLORDETHANE UGZL GCZMS BRONDDICHLORDMETHANE UGZL CG/MS TETRACHLORDSTHYLENE UGZL GCZMS 1.1-0 ICHLORDETHANE UG/L GC/MS WATER TEMPERATURE DEG C FLOW (PUMPING) RATE GALZMIN .2-DICHLORDETHANE UG/L CALDROBENZENE UG/L ETHYLBEN25NE DG/L 3735246 HOLMES SMALL FARM SBOV ANALYSIS ASLT ----STORET-----ID NO NO DESCRIPTION NZENE UG/L PH PH UNITS 12105 0000000 0300001 020000 900000 FACILITY:



APPENDIX E



At this time, well logs are not available from either the Illinois State Water Survey or the Illinois State Geological Survey.





